

A. Nelson

CRF Editor Corrected by th STIC Syst Branch

Serial Number: 08/908,884

versus #5
CRF Processing Dat : 7/29/98 8/28/98
Edited by: A
Verified by: A (STIC staff)

- Changed a file from non-ASCII to ASCII
- Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- Edited a format error in the Current Application Data section, specifically:

ENTERED

- Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____

- Added the mandatory heading and subheadings for "Current Application Data".

- Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

- Changed the spelling of a mandatory field (the headings or subheadings), specifically:

- Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

- Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

- Inserted colons after headings/subheadings. Headings edited included:

- Deleted extra, invalid, headings used by an applicant, specifically:

- Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____

- Inserted mandatory headings, specifically: Seq 28 - added "TYPE" "to MOLECULE"

- Corrected an obvious error in the response, specifically:

- Edited identifiers where upper case is used but lower case is required, or vice versa.

- Corrected an error in the Number of Sequences field, specifically:

- A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

- Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

- Other:

* Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884**DATE: 08/24/98
TIME: 12:45:50**INPUT SET: S3378.raw****This Raw Listing contains the General Information Section and up to the first 5 pages.**1 SEQUENCE LISTING
2
3 (1) General Information
4
5 (i) APPLICANT: Dong et al.
6
7 (ii) TITLE OF INVENTION: ACQUIRED RESISTANCE GENES AND USES THEREOF
8
9 (iii) NUMBER OF SEQUENCES: 28
10
11 (iv) CORRESPONDENCE ADDRESS:
12 (A) ADDRESSEE: Clark & Elbing LLP
13 (B) STREET: 176 Federal Street
14 (C) CITY: Boston
15 (D) STATE: MA
16 (E) COUNTRY: USA
17 (F) ZIP: 02110
18
19
20 (v) COMPUTER READABLE FORM:
21 (A) MEDIUM TYPE: Diskette
22 (B) COMPUTER: IBM Compatible
23 (C) OPERATING SYSTEM: DOS
24 (D) SOFTWARE: FastSEQ for Windows Version 2.0
25
26 (vi) CURRENT APPLICATION DATA:
27 (A) APPLICATION NUMBER:
28 (B) FILING DATE:
29 (C) CLASSIFICATION:
30
31 (vii) PRIOR APPLICATION DATA:
32 (A) APPLICATION NUMBER: 60/023,851
33 (B) FILING DATE: August 9, 1996
34
35 (A) APPLICATION NUMBER: 60/035,166
36 (B) FILING DATE: January 10, 1997
37
38 (A) APPLICATION NUMBER: 60/046,769
39 (B) FILING DATE: May 16, 1997
40
41
42 (viii) ATTORNEY/AGENT INFORMATION:
43 (A) NAME: Elbing, Karen L
44 (B) REGISTRATION NUMBER: 35,238
45 (C) REFERENCE/DOCKET NUMBER: 00786/339004
46**ENTERED**

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884**

DATE: 08/24/98
TIME: 12:45:52

INPUT SET: S3378.raw

47 (ix) TELECOMMUNICATION INFORMATION:
 48 (A) TELEPHONE: 617-428-0200
 49 (B) TELEFAX: 617-428-7045

50

51

52

53 (2) INFORMATION FOR SEQ ID NO:1:

54

55 (i) SEQUENCE CHARACTERISTICS:
 56 (A) LENGTH: 7548 base pairs
 57 (B) TYPE: nucleic acid
 58 (C) STRANDEDNESS: double
 59 (D) TOPOLOGY: linear

60

61 (ii) MOLECULE TYPE: Genomic DNA

62

63 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

64

65 AAGCTTGTGA	TGCAAGTCAT	GGGATATTGC	TTTGTGTTAA	GTATAACAAA	CCATCACGTG	60
66 GATACATAGT	CTTCAAACCA	ACCACTAAAC	AGTATCAGGT	CATACCAAAG	CCAGAACGTGA	120
67 AGGGTTGGGA	TATGTCATTG	GGTTTAGCGG	TAATCGGATT	GAACCCCTTC	CGGTATAAAA	180
68 TACAAAGGCT	TCGCAGTCT	CGCGTATGTT	GTATGTCCTCG	GGGTATCTAC	CATTTGAATC	240
69 ACAGAACTTT	TATGTGCGAA	GTTTCGATT	CTGATTGTT	TACCTGGAAG	AGATTAGAAA	300
70 TTTGCCTCTA	CCAAAAACAG	ACAGATTAAT	TTTTTCCAAC	CCGATACAAG	TTTCGGGGTT	360
71 CTTGCAATTGG	ATATCACCGA	ACAAACATGT	GATCCGGTTT	TGTCTAAAAA	CCGAAACTTG	420
72 GTCCTTCTTC	CATACTCCGA	ACTCTGATGT	TTTCTCAGGA	TTAGTCAGAT	ACGAAGGGAA	480
73 GCTAGGTGCT	ATTCGTCAGT	GGACAAACAA	AGATCAAGAA	GATGTTCACG	AGTTATGGGT	540
74 TTTAAAGAGC	AGTTTGAAA	AGTCGTGGGT	TAAAGTGAAA	GATATTAAAAA	GCATTGGAGT	600
75 AGATTGATT	ACGTGGACTC	CAAGCAACGA	CGTTGTATTG	TTTCGTAGTA	GTGATCGTGG	660
76 TTGCCTCTAC	AACATAAACG	CAGAGAAGTT	GAATTAGTT	TATGCAAAAAA	AAGAGGGATC	720
77 TGATTGTTCT	TTCGTTGTT	TTCCGTTTTG	TTCTGATTAC	GAGAGGGTTG	ATCTGAACGG	780
78 AAGAAGCAAC	GGGCCGACAC	TTTAAAAAAA	AAATAAAAAA	AATGGGCCGA	CAAATGCAAA	840
79 CGTAGTTGAC	AAGGATCTCA	AGTCTCAAGT	CTCAATTGGC	TCGCTCATCG	TGGGGCATAA	900
80 ATATATCTAG	TGATGTTAA	TTGTTTTTA	TAAGGTTAAA	AGGAATATTG	AATTTGTTT	960
81 CTTAGGTTTA	TGTAATAATA	CCAAACATTG	TTTTATGAAAT	ATTTAATCTG	ATTTTTGGC	1020
82 TAGTTATTTT	ATTATATCAA	GGGTTCTGT	TTATAGTTGA	AAACAGTTAC	TGTATAGAAA	1080
83 ATAGTGTCCC	AATTTCTCT	CTTAAATAAT	ATATTAGTTA	ATAAAAGATA	TTTTAATATA	1140
84 TTAGATATAC	AATAATATCT	AAAGCAACAC	ATATTTAGAC	ACAACACGTA	ATATCTTACT	1200
85 ATTGTTTACA	TATATTATA	GCTTACCAAT	ATAACCCGTA	TCTATGTTTT	ATAAGCTTTT	1260
86 ATACAATATA	TGTACGGTAT	GCTGTCCACG	TATATATATT	CTCCAAAAAA	AACGCATGGT	1320
87 ACACAAAATT	TATTAATAT	TTGCAATTG	GGTGTATTAC	TAAAGTTTAT	CACAATATTT	1380
88 ATCAACTATA	ATAGATGGA	GAAGATAAAA	AAATTATATC	AGATTGATTC	AATTAAATT	1440
89 TATAATATAT	CATTTAAAAA	AATTAATTAA	AAGAAAACTA	TTTCATAAAA	TTGTTCAAAA	1500
90 GATAATTAGT	AAAATTAAATT	AAATATGTGA	TGCTATTGAA	TTATAGAGAG	TTATTGTAAA	1560
91 TTTACTTAAA	ATCATAACAA	TCTTATCCTA	ATTTAACTTA	TCATTTAAGA	AATACAAAAG	1620
92 TAAAAAACGC	GGAAAGCAAT	AATTATTTA	CCTTATTATA	ACTCCTATAT	AAAGTACTCT	1680
93 GTTTATTCAA	CATAATCTTA	CGTGTGTTGA	TTCATAGGCA	TCTTTAACCT	ATCTTTTCAT	1740
94 TTTCTGATCT	CGATCGTTT	CGATCCAACA	AAATGAGTCT	ACCGGTGAGG	AACCAAGAGG	1800
95 TGATTATGCA	GATTCCTCT	TCTTCTCAGT	TTCCAGCAAC	ATCGAGTCCG	AAAAACACCA	1860
96 ATCAAGTGAA	GGATGAGCCA	AATTGTTTA	GACGTGTTAT	GAATTGCTT	TTACGTCGTA	1920
97 GTTATTGAAA	AAGCTGATT	ATGCATGAT	TCAGAACGAG	AAGTTGAAGG	CAAATAACTA	1980
98 AAGAACGTCTT	TTATATGTAT	ACAATAATTG	TTTTAAATC	AAATCCTAAT	AAAAAAATA	2040
99 TATTCAATTAT	GACTTTCATG	TTTTAAATGT	AATTATTCC	TATATCTATA	ATGATTTTG	2100

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884**

DATE: 08/24/98
TIME: 12:45:54

INPUT SET: S3378.raw

100	TTGTGAAGAG	CGTTTTCATT	TGCTATAGAA	CAAGGAGAAT	AGTTCCAGGA	AATATTCGAC	2160
101	TTGATTTAAT	TATAGTGTAA	ACATGCTGAA	CACTGAAAAT	TACTTTTCA	ATAAACGAAA	2220
102	AATATAATAT	ACATTACAAA	ACTTATGTGA	ATAAAGCATG	AGACTTAATA	TACGTTCCCT	2280
103	TTATCATTTC	ACTTCAAAGA	AAATAAACAG	AAATGTAACT	TTCACATGTA	AATCTAATTG	2340
104	TTAAATTTAA	AAAATAATAT	TTATATATTG	ATATGAAAAT	AACGAACCGG	ATGAAAAATA	2400
105	AATTTTATAT	ATTTATATCA	TCTCCAAATC	TAGTTGGTT	CAGGGGCTTA	CCGAACCGGA	2460
106	TTGAACTTCT	CATATACAAA	AATTAGCAAC	ACAAAATGTC	TCCGGTATAA	ATACTAACAT	2520
107	TTATAACCCG	AACC GGTTA	GCTTCCTGTT	ATATCTTTT	AAAAAAAGATC	TCTGACAAAG	2580
108	ATTCCCTTCC	TGGAAATTAA	CCGGTTTTGG	TGAAATGTAA	ACCGTGGGAC	GAGGATGCTT	2640
109	CTTCATATCT	CACCAACACT	CTCGTTGACT	GGACTTGGCT	CTGCTCGTCA	ATGGTTATCT	2700
110	TCGATCTTAA	ACCAAATCCA	GTTGATAAGG	TCTCTTCGTT	GATTAGCAGA	GATCTCTTAA	2760
111	ATTGTGAAT	TTCAATTCTAT	CGGAACCTGT	TGATGGACAC	CACCATTGAT	GGATTGCGCG	2820
112	ATTCTTATGA	AATCAGCAGC	ACTAGTTTCG	TCGCTACCGA	TAACACCGAC	TCCTCTATTG	2880
113	TTTATCTGGC	CGCCGAACAA	GTACTCACCG	GACCTGATGT	ATCTGCTCTG	CAATTGCTCT	2940
114	CCAACAGCTT	CGAATCCGTC	TTGACTCGC	CGGATGATTT	CTACAGCGAC	GCTAAGCTTG	3000
115	TTCTCTCCGA	CGGCCGGGAA	GTTCCTTCC	ACCGGTGCGT	TTTGTCAAGCG	AGAAGCTCTT	3060
116	TCTTCAAGAG	CGCTTTAGCC	GCCGCTAAGA	AGGAGAAAAGA	CTCCAACAAAC	ACCGCCGCCG	3120
117	TGAAGCTCGA	GCTTAAGGAG	ATTGCCAAGG	ATTACGAAGT	CGGTTTCGAT	TCGGTTGTGA	3180
118	CTGTTTGGC	TTATGTTTAC	AGCAGCAGAG	TGAGACCGCC	GCCTAAAGGA	GTTTCTGAAT	3240
119	GCGCAGACGA	GAATTGCTGC	CACGTGGCTT	GCCGGCCGGC	GGTGGATTTC	ATGTTGGAGG	3300
120	TTCTCTATTG	GGCTTTCATC	TTCAAGATCC	CTGAATTAAAT	TACTCTCTAT	CAGGTTAAAAC	3360
121	ACCATCTGCA	TTAAGCTATG	GTACACATT	CATGAATATG	TTCTTACTTG	AGTACTTGTGA	3420
122	TTTGTATTTC	AGAGGCACCTT	ATTGGACGTT	GTAGACAAAG	TTGTTATAGA	GGACACATTG	3480
123	GTTATACTCA	AGCTTGCTAA	TATATGTGGT	AAAGCTGTAA	TGAAGCTATTG	GGATAGATGT	3540
124	AAAGAGAGTA	TTGTCAAGTC	TAATGTAGAT	ATGGTTAGTC	TTGAAAAGTC	ATTGCCGAA	3600
125	GAGCTTGTAA	AAGAGATAAT	TGATAGACGT	AAAGAGCTTG	GTGTTGGAGGT	ACCTAAAGTA	3660
126	AAGAAAACATG	TCTCGAATGT	ACATAAGGCA	CTTGACTCGG	ATGATATTGA	GTTAGTCAAG	3720
127	TTGCTTTGCA	AAGAGGATCA	CACCAATCTA	GATGATGCGT	GTGCTCTTCA	TTTCGCTGTT	3780
128	GCATATTGCA	ATGTGAAGAC	CGCAACACAGAT	CTTTTAAAC	TTGATCTTG	CGATGTCAAC	3840
129	CATAGGAATC	CGAGGGGATA	TACGGTGCTT	CATGTTGCTG	CGATGCGGAA	GGAGCCACAA	3900
130	TTGATACTAT	CTCTATTGGA	AAAAGGTGCA	AGTGCATCAG	AAGCAACTTT	GGAAGGTAGA	3960
131	ACCGCACTCA	TGATCGCAAA	ACAAGCCACT	ATGGCGTTG	AATGTAATAA	TATCCGGAG	4020
132	CAATGCAAGC	ATTCTCTCAA	AGGCCGACTA	TGTGTAGAAA	TACTAGAGCA	AGAAGACAAA	4080
133	CGAGAACAAA	TTCCTAGAGA	TGTCCTCCC	TCTTTG	CGAGCCTGAC	4140	
134	ATGACGCTGC	TCGATCTTGA	AAATAGAGGT	ATCTATCAAG	TCTTATTTC	TATATGTTG	4200
135	AATTAAATTG	ATGTCCTCTC	TATTAGGAAA	CTGAGTGAAC	TAATGATAAC	TATTCTTGT	4260
136	GTCGTCCACT	GTTTAGTTGC	ACTTGCTCAA	CGTCTTTTC	CAACGGAAGC	ACAAGCTGCA	4320
137	ATGGAGATCG	CCGAAATGAA	GGGAACATGT	GAGTCATAG	TGACTAGCCT	CGAGCCTGAC	4380
138	CGTCTCACTG	GTACGAAGAG	AACATCACCG	GGTGTAAAGA	TAGCACCTT	CAGAACCTTA	4440
139	GAAGAGCATC	AAAGTAGACT	AAAAGCGCTT	TCTAAAACCG	GTATGGATT	TCACCCACTT	4500
140	CATCGGACTC	CTTATCACAA	AAAACAAAAC	TAAATGATCT	TTAACATGG	TTTTGTTACT	4560
141	TGCTGTCTGA	CCTTGTTTT	TTATCATCAG	TGGAACCTCGG	GAAACGATT	TTCCCGCGCT	4620
142	GTCGGCAGT	GCTCGACCA	ATTATGAACT	GTGAGGACTT	GACTCAACTG	GCTTGGGAG	4680
143	AAGACGACAC	TGCTGAAGAA	ACGACTACAA	AAGAAGCAA	GGTACATGGA	AATACAAGAG	4740
144	ACACTAAAGA	AGGCCTTGTAG	TGAGGACAAT	TTGGAATTAG	GAAATTG	CCTGACAGAT	4800
145	TCGACTTCTT	CCACATCGAA	ATCAACCGGT	GGAAAGAGGT	CTAACCGTAA	ACTCTCTCAT	4860
146	CGTCGTCGGT	GAGACTCTTG	CCTCTTAGTG	TAATTTG	TGACCATAT	AATTCTGTTT	4920
147	TCATGATGAC	TGTAACGTGTT	TATGTCTATC	GTTGGCGTCA	TATAGTTTCG	CTCTTCGTTT	4980
148	TGCATCCTGT	GTATTATTG	TGCAAGGTGTG	CTTCAACAA	ATGTTGTAAC	AATTGAAACC	5040
149	AATGGTATAC	AGATTTGTA	TATATATTAA	TGTACATCAA	CAATAACCCA	TGATGGTGT	5100
150	ACAGAGTTGC	TAGAATCAA	GTGTGAAATA	ATGTCAAATT	GTTCATCTGT	TGGATATT	5160
151	CCACCAAGAA	CCAAAAGAA	ATTCAAGTTC	CCTGAACCTC	TGGCAACATT	CATGTTATAT	5220
152	GTATCTTCCT	AATTCTTC	TTAACCTTTT	GTAACTCGAA	TTACACAGCA	AGTTAGTT	5280

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884**

DATE: 08/24/98
TIME: 12:45:56

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153	AGGTCTAGAG	ATAAGAGAAC	ACTGAGTGGG	CGTGTAAGGT	GCATTCTCCT	AGTCAGCTCC	5340
154	ATTGCATCCA	ACATTGTGA	ATGACACAAG	TTAACATCC	TTTGCACCAT	TCTGGTGC	5400
155	ATACATGGAA	ACTTCTTCGA	TTGAAACTTC	CCACATGTGC	AGGTGCGTTC	GCTGTCACTG	5460
156	ATAGACCAAG	AGACTGAAAG	CTTCACAAA	TTGCCCTCAA	ATCTTCTGTG	TCTATCGTCA	5520
157	TGACTCCATA	TCTCGACCA	CTGGTCATGA	GCCAGAGCCC	ACTGATTTG	AGGAAATTGG	5580
158	GCTAACCAATT	TCCGAGCTTC	TGAGTCCTTC	TTTTGATGT	CCTTATGTGA	GGAATCAAAT	5640
159	TCTTCCTTCT	GACTTGTGGA	TCCAGCCTGC	TTCACAAAGC	TCACCAGGTT	GTAGTCTCCA	5700
160	AAAATATCAT	GGAATTGTAA	GCAAAAACAA	TCCAGACAGA	ACCTGTGATA	GACCCAAGGT	5760
161	TCTTGCCACA	GTGATCCGGG	TTCGTTAATA	ACAGCAACTA	TGTCGGGTG	AGGACTGGAG	5820
162	ACGAAGCAAA	CGTCTTCCT	TTGTGTTACC	TTCTCTCTGA	TATTAGTGAG	AAACCAACGC	5880
163	CAACTATCG	TGGACACTTC	TTTGGTAAGC	GGAAAGCAAG	CGGGAAAAAC	AATCATCAGC	5940
164	GTCGAGTCCT	GAGGAAAATC	ATCAATTTC	TAGGGTACT	TGCCGTTCAA	GTCTTTGAA	6000
165	TCCACTATGA	TCAGAGGTCT	ACAGTGTGA	AACCCTCAA	TGACTGTGG	AAACGCCAA	6060
166	AACGCGCCAC	CGAAGGATGC	AAATTCAAGGA	TTAGGGAAAA	GCTCATATTG	CAGTCACAA	6120
167	GTAGCCCATT	AGATGAGTGA	AATGCAGCCA	ATTAGTTAG	GCAATACTCT	GAAACTCTGA	6180
168	TCTTGATTA	CTTCCTGTTC	TGCTGCCGC	AGCTTGAAG	TTTAAGCAT	GTCACCAAC	6240
169	TTTCAACTC	TGCTGTTAGA	GTGGGTTGTA	CCCTGATCAG	ACACTCAATC	TCTTCTGCTG	6300
170	CAAATTACAA	GTTGAAGTTT	TCCGGCTTAA	TAGAACACAA	AGTATGTGGA	CCAACATACAC	6360
171	TTAGTTATCT	TAACAAGTCC	ATGTTCTTCT	ATTCAATCTG	CCCGACGCGA	CCAATTGCAT	6420
172	TTCCATCTGA	TGCATTTAAA	CGTATACTCG	TCCTCTCAA	TCTCTTGTAC	TACACACTTT	6480
173	TGCTGCCCTC	TAATGGAACA	CCAGTCCACC	GCCTTCTCA	GTCATCCCT	ATCTTTAAAA	6540
174	CACAACCCTA	CACGCAATT	ATGATCATCA	ATCCACAAAC	TAGACAAAGT	ACACTGTTT	6600
175	GAAGCACTCG	AATCAACAAAC	ACCTTTACTT	AATAAGCACG	CATACGGTAA	TACCTCTAAG	6660
176	CCTGGCACAT	TCAAACCTTG	TGTGCATCAT	CTGAACCGA	GTTTTATCC	GTTATTCTC	6720
177	CATCCCCACC	TCCACGAGTG	CTACCAATTTC	CGAAGTCAGA	ATTTCCCTG	TCTTCAATCC	6780
178	ACCCGTTACT	GTTACCCACT	CCCTGAACCT	CTAAACCATT	ATCTCTCTCT	ACTTTCACAG	6840
179	ATGCATGTGA	CACATAATCA	GTAGCTTCTT	GGGGTTGTTG	CGTCCTCTGT	GTATTGAGG	6900
180	AACTAGCGGG	ATATTCTATT	ACGGATGAAC	AAGCAGCATG	ATCAGTAACA	TTATCAGATG	6960
181	TCGATTTCAC	TTCCAAATAC	AACTCCACAT	TTCTTATAGA	AGGATGATAA	CTTGGAAACTT	7020
182	CAAGCATAGT	CTCCAAACTA	GTGCGTTCA	CTACATGAAG	AAGTAGATAG	ATAAAGAGAT	7080
183	CCGGTGAACAC	AACTACAGGA	TACTTACCAA	AATATATTGA	ACACTGATT	CTGCAGCTGC	7140
184	AATCCAAAAA	TTGGATAAAAG	ACCATTCAAC	AATGTACTTA	ACGCAGTCTT	TTGCCTAAC	7200
185	TTGACCGTTT	TAGGAGTGG	TCCTTCATAG	TAAACACCAT	CAGGACCATA	CTTGGTAGAA	7260
186	CCTTCTCTC	AAGGTTCCA	TCGCCATGAC	CATAACAGTC	CTGCAGTGAA	TTCTAAGAAA	7320
187	AATGTAAAAA	ATTTTGGCCT	AAACTCATAA	TTCTTAACAT	ACGAAACCAT	GGAGAACTCC	7380
188	ATGTCTAAAA	AATAAAGGCT	AAAGCTTTT	GGCGACAGAA	GCAGATAAAAT	CCATTCAAAA	7440
189	CACATAAAACT	CTAAACAATA	AACAGTGATA	CTCAATACTA	AGACTTGTAA	AGGTCTACGT	7500
190	AACTCAAAAC	TGGAGAATTG	TCAGATCGGG	TGTGGCTAGT	AGAAGCTT		7548

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2104 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: Coding Sequence
- (B) LOCATION: 93...1871
- (D) OTHER INFORMATION:

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884**

DATE: 08/24/98
TIME: 12:45:58

INPUT SET: S3378.raw

206
 207
 208 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
 209
 210 TCGATCTTAA ACCAAATCCA GTTGATAAGG TCTCTTCGTG GATTAGCAGA GATCTCTTAA 60
 211 ATTTGTGAAT TTCAATTCA CGGAACCTGT TG ATG GAC ACC ACC ATT GAT GGA
 212 Met Asp Thr Thr Ile Asp Gly
 213 1 5
 214
 215 TTC GCC GAT TCT TAT GAA ATC AGC AGC ACT AGT TTC GTC GCT ACC GAT 161
 216 Phe Ala Asp Ser Tyr Glu Ile Ser Ser Thr Ser Phe Val Ala Thr Asp
 217 10 15 20
 218
 219 AAC ACC GAC TCC TCT ATT GTT TAT CTG GCC GCC GAA CAA GTA CTC ACC 209
 220 Asn Thr Asp Ser Ser Ile Val Tyr Leu Ala Ala Glu Gln Val Leu Thr
 221 25 30 35
 222
 223 GGA CCT GAT GTA TCT GCT CTG CAA TTG CTC TCC AAC AGC TTC GAA TCC 257
 224 Gly Pro Asp Val Ser Ala Leu Gln Leu Leu Ser Asn Ser Phe Glu Ser
 225 40 45 50 55
 226
 227 GTC TTT GAC TCG CCG GAT GAT TTC TAC AGC GAC GCT AAG CTT GTT CTC 305
 228 Val Phe Asp Ser Pro Asp Asp Phe Tyr Ser Asp Ala Lys Leu Val Leu
 229 60 65 70
 230
 231 TCC GAC GGC CGG GAA GTT TCT TTC CAC CCG TGC GTT TTG TCA GCG AGA 353
 232 Ser Asp Gly Arg Glu Val Ser Phe His Arg Cys Val Leu Ser Ala Arg
 233 75 80 85
 234
 235 AGC TCT TTC TTC AAG AGC GCT TTA GCC GCC GCT AAG AAG GAG AAA GAC 401
 236 Ser Ser Phe Phe Lys Ser Ala Leu Ala Ala Lys Lys Lys Glu Lys Asp
 237 90 95 100
 238
 239 TCC AAC AAC ACC GCC GCC GTG AAG CTC GAG CTT AAG GAG ATT GCC AAG 449
 240 Ser Asn Asn Thr Ala Ala Val Lys Leu Glu Leu Lys Glu Ile Ala Lys
 241 105 110 115
 242
 243 GAT TAC GAA GTC GGT TTC GAT TCG GTT GTG ACT GTT TTG GCT TAT GTT 497
 244 Asp Tyr Glu Val Gly Phe Asp Ser Val Val Thr Val Leu Ala Tyr Val
 245 120 125 130 135
 246
 247 TAC AGC AGC AGA GTG AGA CCG CCG CCT AAA GGA GTT TCT GAA TGC GCA 545
 248 Tyr Ser Ser Arg Val Arg Pro Pro Lys Gly Val Ser Glu Cys Ala
 249 140 145 150
 250
 251 GAC GAG AAT TGC TGC CAC GTG GCT TGC CGG CCG GCG GTG GAT TTC ATG 593
 252 Asp Glu Asn Cys Cys His Val Ala Cys Arg Pro Ala Val Asp Phe Met
 253 155 160 165
 254
 255 TTG GAG GTT CTC TAT TTG GCT TTC ATC TTC AAG ATC CCT GAA TTA ATT 641
 256 Leu Glu Val Leu Tyr Leu Ala Phe Ile Phe Lys Ile Pro Glu Leu Ile
 257 170 175 180
 258

*INPUT SET: S3378.raw******** PREVIOUSLY ERRORED SEQUENCES - EDITED *******

946 (2) INFORMATION FOR SEQ ID NO:28:
947
948 (i) SEQUENCE CHARACTERISTICS:
949 (A) LENGTH: 21 base pairs
950 (B) TYPE: nucleic acid
951 (C) STRANDEDNESS: single
952 (D) TOPOLOGY: linear
953
954 (ii) MOLECULE TYPE: DNA
955 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:
956
957 RAAYTCRCAN GTNCCYTTCA T
958

21

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/08/908,884**

DATE: 08/24/98
TIME: 12:46:01

INPUT SET: S3378.raw

Line

Error

Original Text

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884**

DATE: 08/24/98
TIME: 12:44:15

INPUT SET: S3378.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

SEQUENCE LISTING

3 (1) General Information

(i) APPLICANT: Dong et al.

7 (ii) TITLE OF THE INVENTION: ✓

ACQUIRED RESISTANCE GENES AND USES THEREOF

10 (iii) NUMBER OF SEQUENCES: 28

12 (iv) CORRESPONDENCE ADDRESS:
13 (A) ADDRESSEE: Clark & Elbing LLP
14 (B) STREET: 176 Federal Street
15 (C) CITY: Boston
16 (D) STATE: MA
17 (E) COUNTRY: USA
18 (F) ZIP: 02110

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Diskette
23 (B) COMPUTER: IBM Compatible
24 (C) OPERATING SYSTEM: DOS
25 (D) SOFTWARE: FastSEQ for Windows Version 2.0

27 (vi) CURRENT APPLICATION DATA:

28 (A) APPLICATION NUMBER:
29 (B) FILING DATE:
30 (C) CLASSIFICATION:

32 (vii) PRIOR APPLICATION DATA:

33 (A) APPLICATION NUMBER: 60/023,851
34 (B) FILING DATE: August 9, 1996

(A) APPLICATION NUMBER: 60/035,166
(B) FILING DATE: January 10, 1997

39 (A) APPLICATION NUMBER: 60/046,769
40 (B) FILING DATE: May 16, 1997

43 (viii) ATTORNEY/AGENT INFORMATION:
44 (A) NAME: Elbing, Karen L
45 (B) REGISTRATION NUMBER: 35-238

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/908,884**DATE: 08/24/98
TIME: 12:44:17**INPUT SET: S3378.raw**

46 (C) REFERENCE/DOCKET NUMBER: 00786/339004
47
48 (ix) TELECOMMUNICATION INFORMATION:
49 (A) TELEPHONE: 617-428-0200
50 (B) TELEFAX: 617-428-7045
51
52
53

ERRORED SEQUENCES FOLLOW:

947 (2) INFORMATION FOR SEQ ID NO:28:
948
949 (i) SEQUENCE CHARACTERISTICS:
950 (A) LENGTH: 21 base pairs
951 (B) TYPE: nucleic acid
952 (C) STRANDEDNESS: single
953 (D) TOPOLOGY: linear
954 --> 955 *(add "TYPE")*
955 (ii) MOLECULE DNA
956 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:
957
958 RAAYTCRCAN GTNCCYTTCA T

PAGE: 1

**SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/908,884**

DATE: 08/24/98
TIME: 12:44:18

INPUT SET: S3378.raw

Line	Error	Original Text
7	Mandatory Value Not Present	(ii) TITLE OF THE INVENTION:
955	Unknown or Misplaced Identifier	(ii) MOLECULE DNA

PAGE: 1

**SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/08/908,884**

DATE: 08/24/98
TIME: 12:44:18

INPUT SET: S3378.raw

<< THERE ARE NO ITEMS MISSING >>